

What is Claimed Is:

1. Device for measuring the angle of rotation for an electrical machine equipped with a commutator (1), in which the segments (2) of the commutator (1) are formed of an electrically conductive material penetrable by a magnetic field, especially of copper, characterized in that a basic body (3) of the commutator (1) bearing the segments (2) is permanently magnetized at least sectionally, and that the stator of the machine is equipped with sensors (8; 9) responding to the rotary status of the commutator (1).

2. Device for measuring the angle of rotation according to Claim 1, characterized in that the sensor (8; 9) has at least one Hall element, which is penetrable by the magnetic field of the commutator (1).

3. Device for measuring the angle of rotation according to one of the preceding claims, characterized in that the basic body (3) is made of an electrically conductive material permeable to a magnetic field.

4. Device for measuring the angle of rotation according to Claim 3, characterized in that the basic body (3) is made of plastic.

5. Device for measuring the angle of rotation according to one of the preceding claims, characterized in that the basic body (3) has at least one recess (5), into which a prefabricated magnet, especially an annular magnet (4) or a magnetic segment (6), is fitted.

6. Device for measuring the angle of rotation according to one of the preceding claims, characterized in that the basic body (3) essentially consists of a magnet made of electrically insulating and magnetizable material.

7. Device for measuring the angle of rotation according to Claim 5, characterized in that the magnet of the basic body (3) is molded.

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